

AMENDMENTS TO THE CLAIMS

56. (Currently amended) A method for drug discovery comprising the steps of:
providing a molecular descriptor array having a plurality of definable
locations,

providing a pharmaceutically active compound to the molecular descriptor
array, and monitoring the response of the molecular descriptor array to the
pharmaceutically active compound, thereby developing a response profile for the
pharmaceutically active compound,

subsequently providing in series related compounds to the molecular
descriptor array, monitoring the response of the molecular descriptor array to the
related compounds, thereby developing further response profiles for the related
compounds, and

providing a test compound to the molecular descriptor array, monitoring the
response of the molecular descriptor arrays to the test compound and analyzing the
response of the test compound relative to the response profiles for the
pharmaceutically active compound and related compounds so as to predict expected
response of the test compound.
